

Message

From: Praskins, Wayne [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=4F47BC0A2C2E42A98347D59CD1A98B19-WPRASKIN]
Sent: 8/10/2020 8:58:58 PM
To: Chesnutt, John [Chesnutt.John@epa.gov]
Subject: Building RGs

John –

I'm working on an email to the Navy on the building RGs. We have a decision to make. Based on modified BPRGs that Stuart had Fred/ORNL generate, the risks associated with the current RGs for external radiation exposure ("fixed contamination") are in or close to the risk range.

As shown in the table (third column), most are less than 1×10^{-4} . The exceptions are Cs-137, Co-60, Eu-152, and Eu-154, at risks of 1.4, 2.0, 2.1, and 1.7×10^{-4} respectively. We have a couple of options on how to proceed. Can we discuss?

		HPNS RGs	Risk at current RG, based on ORNL ext exp PRG, corner, floor + 6'	New RG if risk lowered to 1×10^{-4}
		dpm/ 100 cm ²	$\times 10^{-4}$	dpm/ 100 cm ²
Am-241	SE	100	0.1	
Cs-137		5000	1.4	3652
Co-60		5000	2.0	2494
Eu-152		5000	2.1	2336
Eu-154		5000	1.7	2919
H-3		5000		
Pu-239	SE	100	0.1	
Ra-226	SE	100	0.1	
Sr-90		1000	0.0	
Th-232	SE	36.5	0.1	
U-235	SE	488	0.3	

(The other half of our proposal will be lower RGs to be used for removable contamination (i.e., dust).)

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